

CITY OF ALBUQUERQUE



August 7, 2006

Mr. Gilbert Aldaz, PE
APPLIED ENGINEERING INC.
1605 Blair Drive NE
Albuquerque, NM 87112

RE: ATLANTIC & SANTA FE SUBDIVISION (BARELAS HOUSING)
(K-14/D92)
Engineers Certification for Release of Financial Guaranty
Engineers Stamp dated 10/29/2005
Engineers Certification dated 07/10/2006

Dear Gilbert:

P.O. Box 1293

Based upon the information provided in your Engineer's Certification Submittal dated 07/11/2006, the above referenced plan is adequate to satisfy the Grading and Drainage Certification for Release of Financial Guaranty.

Albuquerque

If you have any questions, you can contact me at 924-3982

New Mexico 87103

Sincerely,

Arlene V. Portillo

Plan Checker, Planning Dept.- Hydrology
Development and Building Services

www.cabq.gov

C: Marilyn Maldonado, COA# 758881
File

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/28/2003rd)

PROJECT TITLE: Barelas Housing ZONE MAP/DRG. FILE #: K-14/D92
DRB #: 1003641 EPC#: _____ WORK ORDER#: 75881

LEGAL DESCRIPTION: Block 2, Baca Addition
CITY ADDRESS: Between 2nd & 3rd Street,

Between Santa Fe Av. and Atlantic Av.
ENGINEERING FIRM: Applied Engineering Inc CONTACT: Gilbert Aldaz
ADDRESS: 1605 Blair Drive NE PHONE: 237-1456, 480-8125
CITY, STATE: Albuq., NM ZIP CODE: 87112

OWNER: Greater Albuq. Housing Partnership CONTACT: Louis Kolker
ADDRESS: 110 2nd Street SW PHONE: 244-1614
CITY, STATE: Albuq. NM ZIP CODE: 87102

ARCHITECT: ISAAC Benton, AIA CONTACT: Isaac Benton
ADDRESS: 624 Tijeras NW PHONE: 243-3499
CITY, STATE: Albuq. NM ZIP CODE: 87102

SURVEYOR: _____ CONTACT: _____
ADDRESS: _____ PHONE: _____
CITY, STATE: _____ ZIP CODE: _____

CONTRACTOR: _____ CONTACT: _____
ADDRESS: _____ PHONE: _____
CITY, STATE: _____ ZIP CODE: _____

CHECK TYPE OF SUBMITTAL:

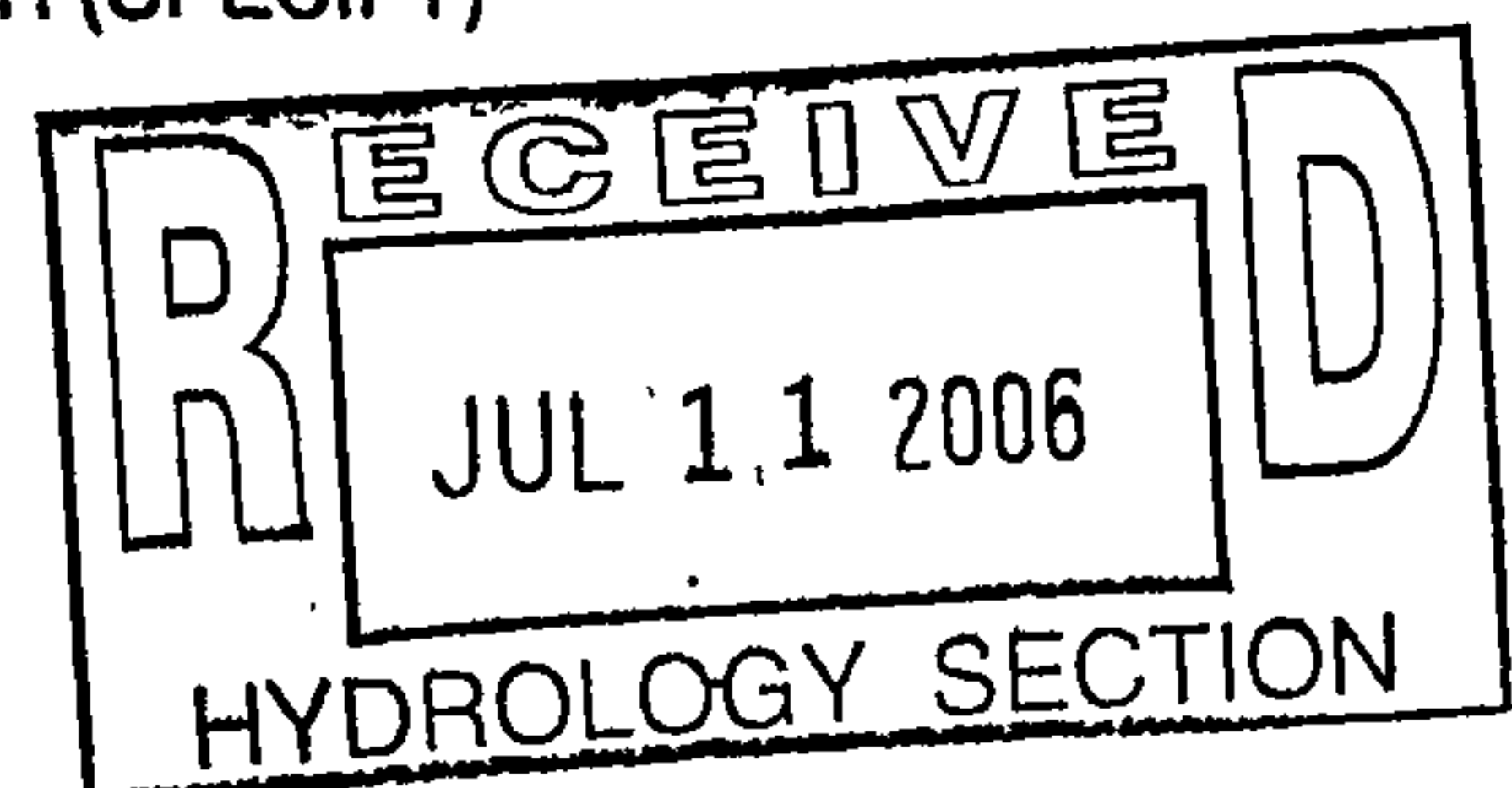
- ☐ DRAINAGE REPORT
- ☐ DRAINAGE PLAN 1st SUBMITTAL, *REQUIRES TCL or equal*
- ☐ DRAINAGE PLAN RESUBMITTAL
- ☐ CONCEPTUAL GRADING & DRAINAGE PLAN
- ☐ GRADING PLAN
- ☒ EROSION CONTROL PLAN
- ☒ ENGINEER'S CERTIFICATION (HYDROLOGY)
- ☐ CLOMR/LOMR
- ☐ TRAFFIC CIRCULATION LAYOUT (TCL)
- ☐ ENGINEERS CERTIFICATION (TCL)
- ☐ ENGINEERS CERTIFICATION (DRB APPR. SITE PLAN)
- ☐ OTHER

CHECK TYPE OF APPROVAL SOUGHT:

- ☒ SIA / FINANCIAL GUARANTEE RELEASE
- ☐ PRELIMINARY PLAT APPROVAL
- ☐ S. DEV. PLAN FOR SUB'D. APPROVAL
- ☐ S. DEV. PLAN FOR BLDG. PERMIT APPROVAL
- ☐ SECTOR PLAN APPROVAL
- ☐ FINAL PLAT APPROVAL
- ☐ FOUNDATION PERMIT APPROVAL
- ☒ BUILDING PERMIT APPROVAL
- ☒ CERTIFICATE OF OCCUPANCY (PERM.)
- ☐ CERTIFICATE OF OCCUPANCY (TEMP.)
- ☐ GRADING PERMIT APPROVAL
- ☐ PAVING PERMIT APPROVAL
- ☐ WORK ORDER APPROVAL
- ☐ OTHER (SPECIFY)

WAS A PRE-DESIGN CONFERENCE ATTENDED:

- ☐ YES
- ☒ NO
- ☐ COPY PROVIDED

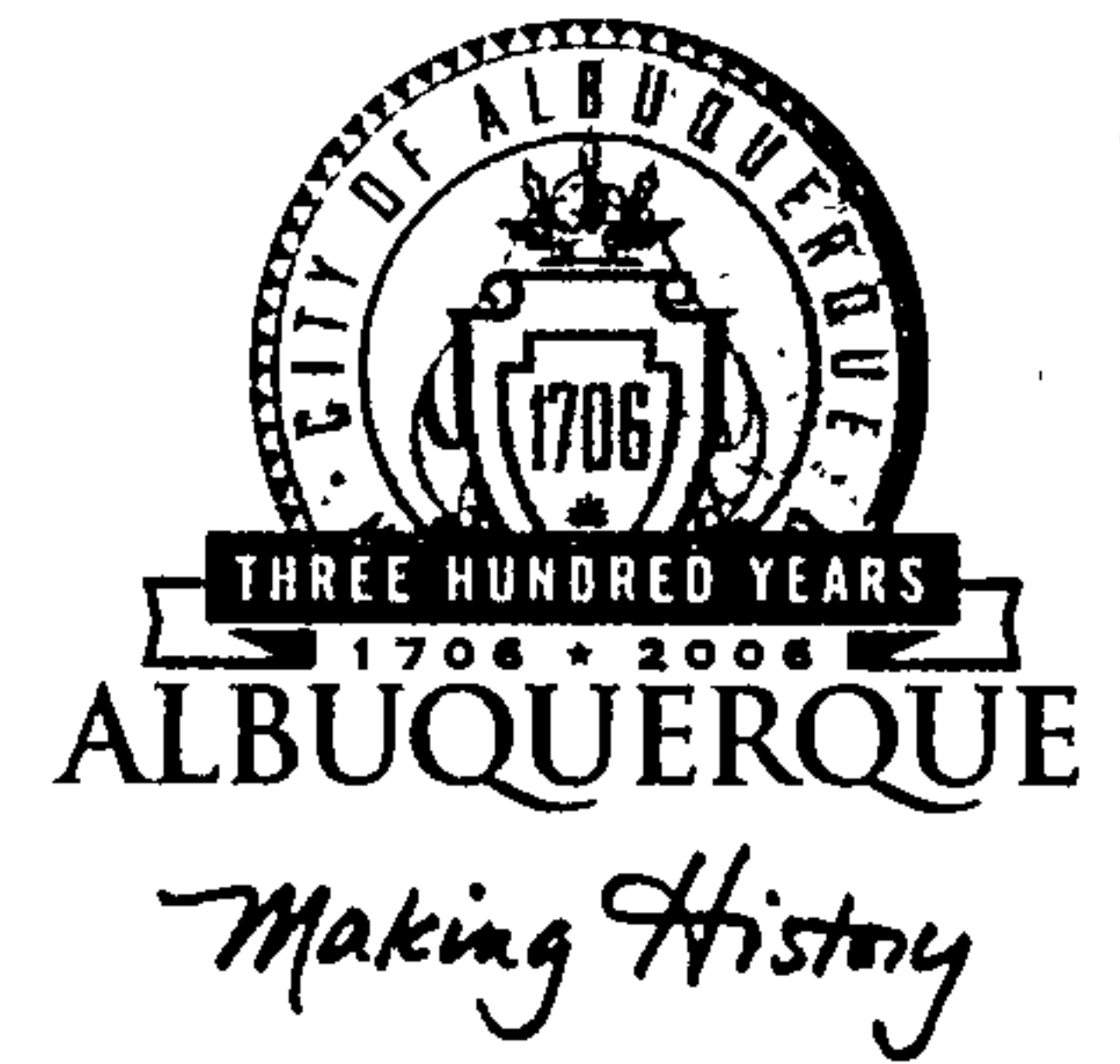


DATE SUBMITTED: 07-10-06 BY: Gilbert Aldaz

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location and scope of the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based on the following:

1. Conceptual Grading and Drainage Plan: Required for approval of Site Development Plans greater than five (5) acres and Sector Plans.
2. Drainage Plans: Required for building permits, grading permits, paving permits and site plans less than five (5) acres.

CITY OF ALBUQUERQUE



November 2, 2005

Gilbert Aldaz, P.E.
Applied Engineering Inc.
1605 Blair Dr. NE
Albuquerque, NM 87112

Re: Barelas Housing, Block 2 Baca Addition
Grading and Drainage Plan
Engineer's Stamp dated 10-29-05 (K14-D92)

Dear Mr. Aldaz,

P.O. Box 1293

Based upon the information provided in your submittal received 10-31-05, the above referenced plan is approved for Preliminary and Final Plat action by DRB. This plan will take precedence over all other plans submitted to this office.

Albuquerque

If you have any questions, you can contact me at 924-3695.

New Mexico 87103

www.cabq.gov

Sincerely,

Rudy E. Rael Associate Engineer
Planning Department.
Development and Building Services

C: File

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/28/2003rd)

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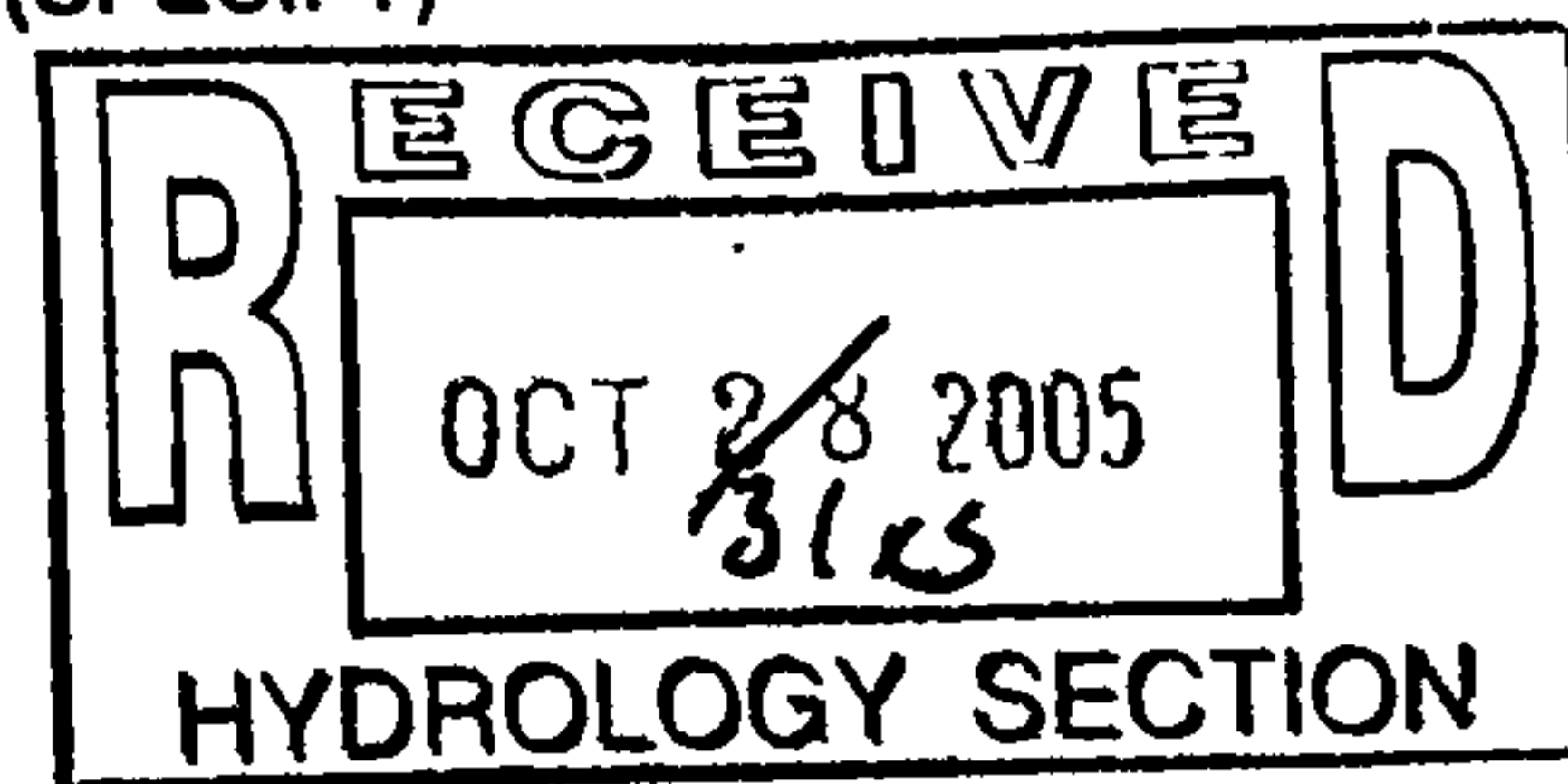
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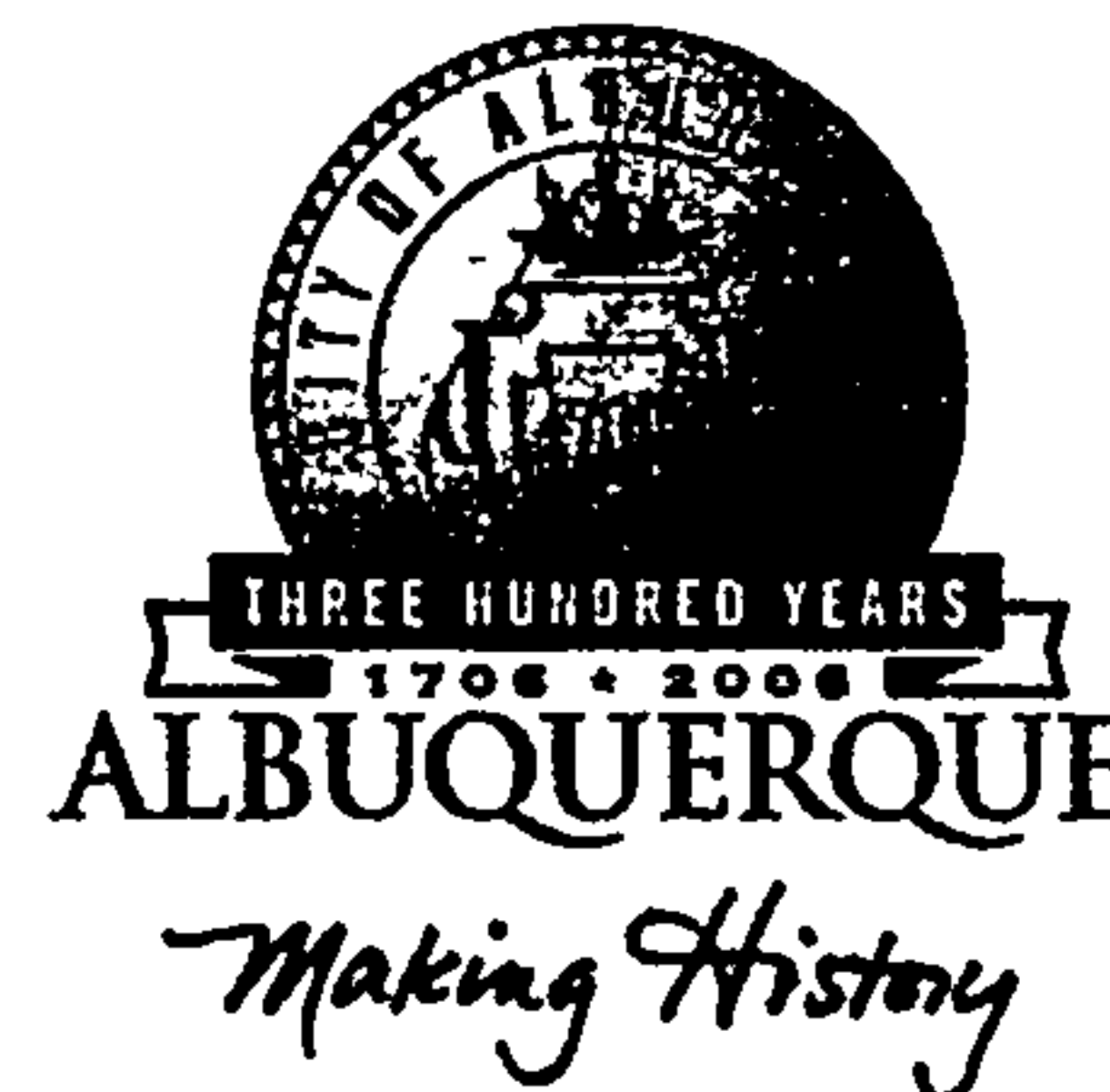


DATE SUBMITTED: 10-31-05 BY: Gilbert Aldaz

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CITY OF ALBUQUERQUE



February 7, 2005

Gilbert Aldaz, P.E.
Applied Engineering Inc.
1605 Blair Drive NE
Albuquerque, NM 87112

RE: Barelás Housing, K14-D92 Grading and Drainage Plan Engineer Stamp
Dated December 3, 2004

Dear Mr. Aldaz

Based upon the information provided in your submittal received 12-03-04, the above referenced plan is approved for Preliminary Plat action by the DRB however prior to final plat approval you will need to provide the information listed below:

- Albuquerque
New Mexico 87143
- 1- A grading plan that indicates spot elevations at all property corners, you will be required to certify this plan prior to the release of financial guarantees. — *Done*
- 2- Clearly indicate the legal description on the grading plan on the top of page two at the upper left hand corner. — *DONE*
- 3- Indicate that the alley is going to be public. — *DONE*
- 4- Private drainage easements that are needed. — *DONE ON PLAT*
- 5- Lot numbers. — *DONE*

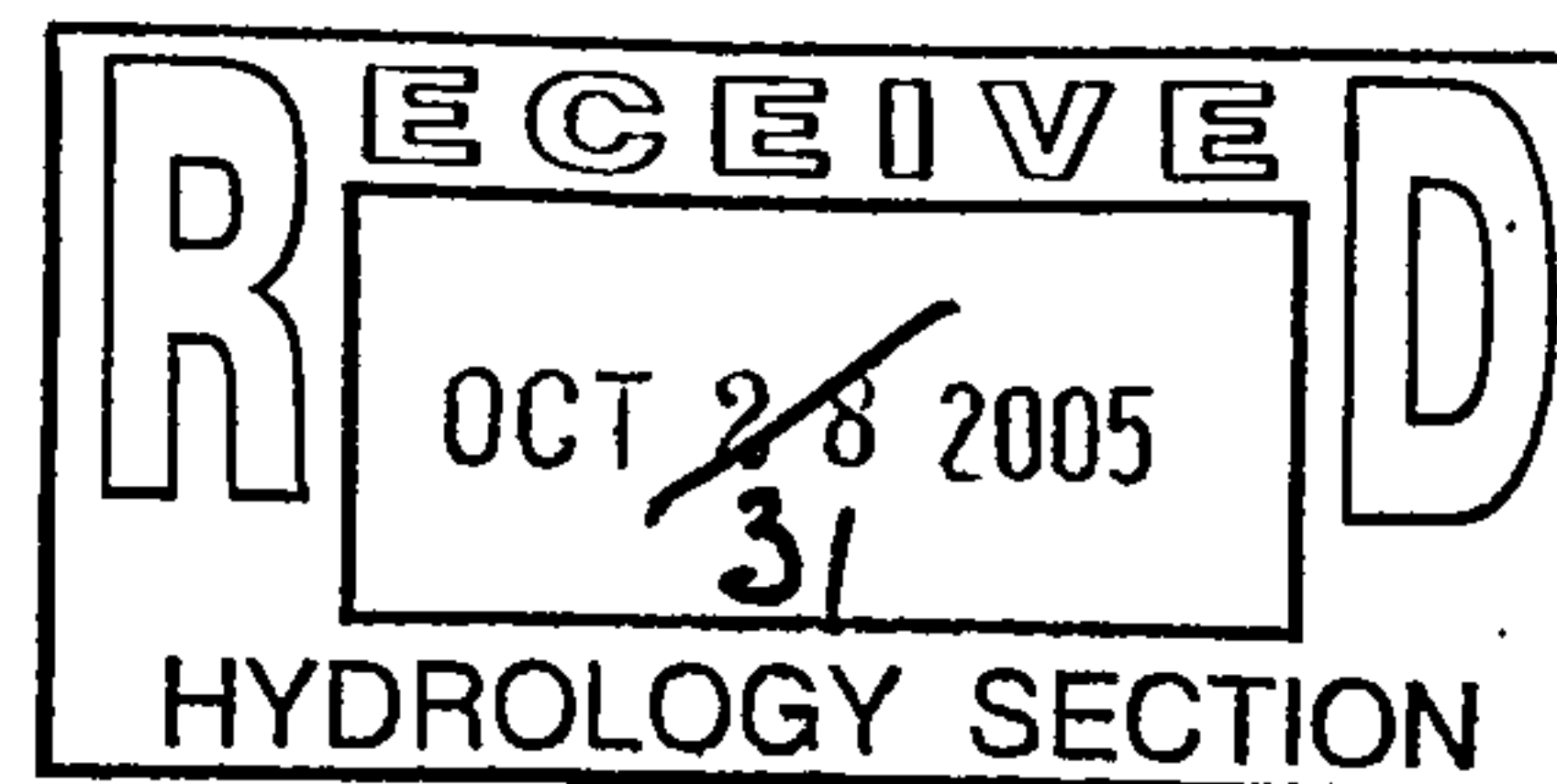
www.cabq.gov

If you have any questions, you can contact me at 924-3999.

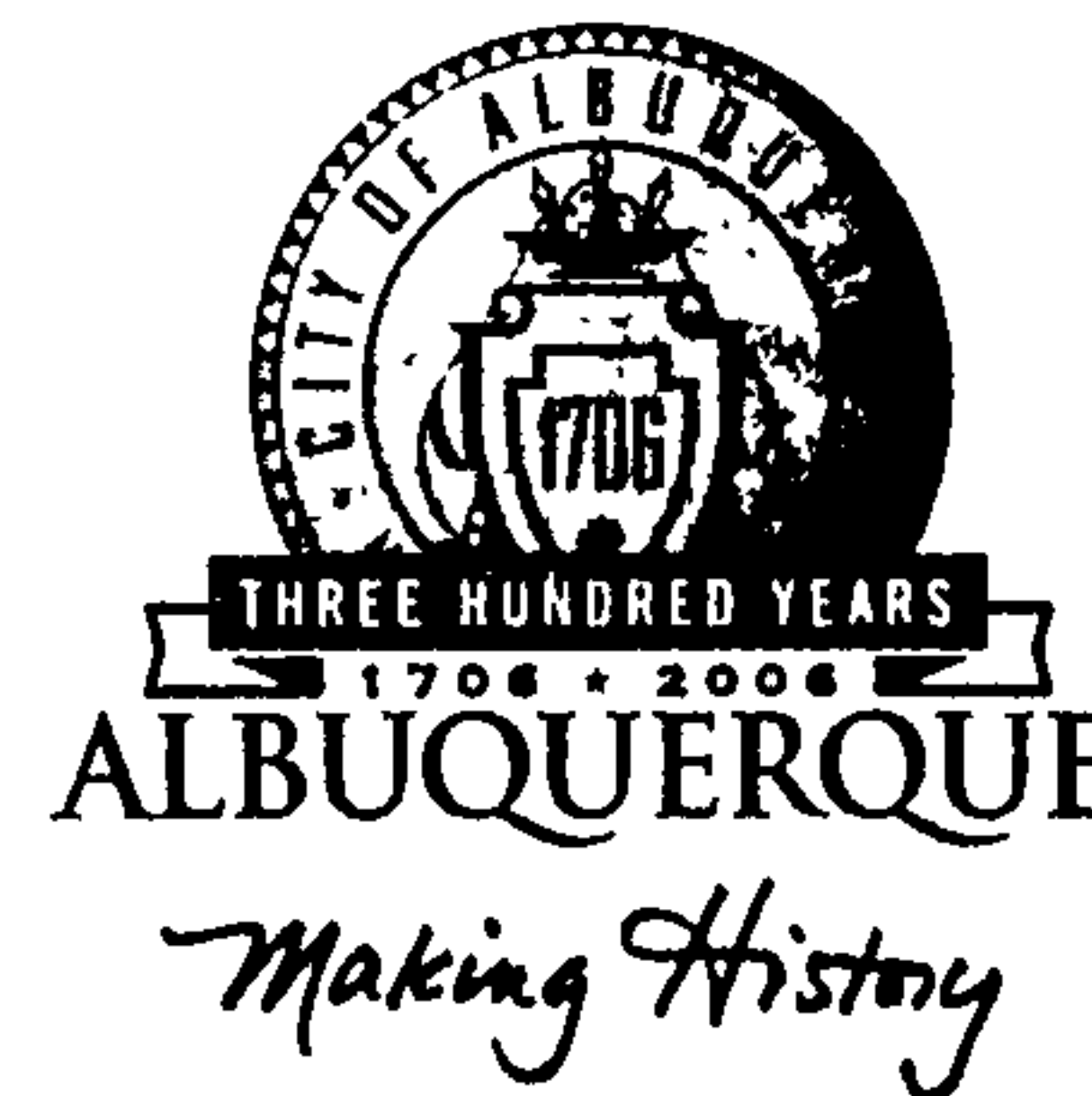
Sincerely,

Richard Dourte, PE
City Engineer
Development and Building Services

C: Bradley Bingham, DRB
file



CITY OF ALBUQUERQUE



February 7, 2005

Gilbert Aldaz, P.E.
Applied Engineering Inc.
1605 Blair Drive NE
Albuquerque, NM 87112

RE: Barelás Housing, K14-D92 Grading and Drainage Plan Engineer Stamp
Dated December 3, 2004

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- 3- Indicate that the alley is going to be public.
- 4- Private drainage easements that are needed.
- 5- Lot numbers.

If you have any questions, you can contact me at 924-3999.

Sincerely,

Richard Dourte, PE
City Engineer
Development and Building Services

C: Bradley Bingham, DRB
file

Chapter 22 - Drainage, Flood Control and Erosion Control

K-14/D92
2-07-05
STAMP DATED
12-03-04

VII. GRADING PLAN

A. Description

1. Reference the Grading Plan when included as an attachment to the Drainage Submittal
2. Describe elements of the Plan and how those elements relate to the Existing and Developed Conditions sections of the submittal discussed above
3. Discuss and reference all other supporting drawings provided in support of the Drainage Submittal

B. Content

1. Refer to Grading Plan Checklist that follows

VIII. CALCULATIONS

A. Description

1. Provide narrative description of the calculations performed to support the analyses and evaluations discussed above
2. Discuss and reference calculations for Existing, Developed and Future hydrology
3. Discuss and reference hydraulic calculations demonstrating capacity and/or adequacy of existing and proposed facilities
4. Provide sample calculations, tables, charts, etc. as necessary to support the calculations and results discussed above
5. Reference computer software, documents, circulars, manuals, etc. used to produce the calculations and results discussed above

IX. CONCLUSION

- A. Summary of proposed drainage management strategy
- B. Justification of rationale for discharge of developed runoff from site
- C. Summary of proposed drainage improvements
- D. Identification of DPM design variances being requested
- E. Identification of required Drainage Covenants
- F. Identification of ownership, operation and maintenance responsibilities

GRADING PLAN CHECKLIST

The following checklist is intended as a guide for preparing a Grading Plan to accompany a drainage report or plan. It is only a guide. Some items may not be applicable to your particular project; some items may require more detail. A pre-design conference is recommended to define scope and project specific requirements.

Chapter 22 - Drainage, Flood Control and Erosion Control

General Information:

- ✓1. Professional Engineer's stamp with signature and date.
2. Drafting Standards: (Reference City Standards, D.P.M. Volume 2, Chapter 27).
 - ✓A. North Arrow
 - B. Scales - recommended engineer scales:
 - ✓(1) 1" = 20' for sites less than 5 acres
 - (2) 1" = 50' for sites 5 acres or more
 - ✓C. Legend - see D.P.M. Manual, Volume 2, Tables 27.3a - 27.3d for recommended standard symbols
 - ✓D. Plan drawings size: 24" x 36"
 - ✓E. Notes defining property line, asphalt paving, sidewalks, planting areas, ponding areas, project limits, and all other areas whose definition would increase clarity
- ✓3. Vicinity Map
- ✓4. Benchmark - location, description and elevation
 - ✓A. Albuquerque control survey vertical datum
 - ✓B. Permanently marked temporary benchmark located on or very near site
- Identify 5. Flood Hazard Boundary Map (FHBM) or Flood Insurance Rate Map (FIRM)
6. (Legal Description) *500 yr*

EXISTING CONDITIONS

1. On-site:
 - ✓A. Existing Contours - vertical intervals for contour maps shall not exceed the following:
 - ✓(a) One foot intervals for slopes under 1% with sufficient spot elevations at key points to adequately show the site's topography
 - (b) Two feet for slopes between 1% and 5%
 - (c) Five feet for slopes in excess of 5%
 - ✓B. Spot elevations adequately showing conditions on-site.
 - ✓C. Contours and spot elevations extending a minimum of 25' beyond property line.
 - ✓D. Identification of all existing structures located on-site or on adjacent property extending a minimum of 25' beyond property line with particular attention to retaining and garden walls.
 - ✓E. Identification of all existing drainage facilities located on-site or on adjacent property.

Chapter 22 - Drainage, Flood Control and Erosion Control

- ✓ F. Pertinent elevation(s) of structures and facilities defined in A, B and C above with NGVD 29 designation. NGVD 29 is the vertical system on which ACS monuments are currently based. In the future, ACS monuments should be field converted to NAVD 88 at which time NAVD shall become "equivalent".
- ✓ G. Indication of all existing easements and rights-of-way on or adjacent to the site with dimensions and purpose shown.
- ✓ H. Existing City top of curb and flow line elevations with NGVD 29 designation, or equivalent.
- ✓ I. The location of Special Flood Hazard Area Boundaries from the latest FEMA maps must be overlaid on the existing site map (enlarged to site plan scale), when applicable.

2. Off-site: — *N/A*

- A. Contributing Area - delineation of off-site contributing watersheds and/or drainage basins on City of Albuquerque Ortho-Topo Area Maps or equivalent mapping at a preferable scale of 1" = 200' or 1" = 500'. Watershed and Basin designations shall match those used in the hydrology calculations.
- B. Existing easements and rights-of-way including ownership and purpose.

PROPOSED CONDITIONS

1. On-site:

- ✓ A. Proposed improvements superimposed onto the existing conditions.

B. Proposed Grades

Proposed grades shall be adequately depicted by contours and/or spot elevations conforming with the following minimum criteria:

- (1) Contours - vertical intervals for contour maps shall not exceed the following:
 - (a) One foot intervals for slopes under 1% (with supplemental spot elevations as appropriate to adequately illustrate the proposed grading of the site).
 - (b) Two feet for slopes between 1% and 5%.
 - (c) Five feet for slopes in excess of 5%.
- (2) Spot Elevations - supply spot elevations at the following:
 - (a) Key points and grade breaks
 - (b) Critical locations
 - (c) Pad elevations

Spot Elevations @ all intersections

- ✓ C. Indication of all proposed easements and rights-of-way on or adjacent to the site with dimensions and purpose identified.

- D. City Engineer approved street and/or alley grades when site abuts a dedicated unpaved street or alley. In the event that approved grades are not available, provide preliminary street and/or alley grades.

*Loop Street
Public
or
Private?*

Clear sight distance @ all intersections

Chapter 22 - Drainage, Flood Control and Erosion Control

- ✓ E. Internal contributory drainage areas, including roof areas, outlined on plan.
- ✓ F. Flow lines defined by arrows and spot elevations with NGVD 29 designation, or equivalent, as appropriate for clarity.
- N/A G. Pond(s) 100 year water surface elevation outlined and indicated on plan.
- ✓ H. Finish building floor elevation(s) or pad elevation(s) with complete NGVD 29 designation, or equivalent, when applicable.
- I. Elevations along property lines including relationship to adjacent top of curb.
- N/A J. Details of ponds, inverts, rundowns, curb cuts, water blocks, emergency spillways, retaining walls, pond outlets, safety fences, slopes, and all other significant drainage structures with contours, cross-sections and spot elevations. All cross-sections must be drawn to a standard engineering scale and adequately dimensioned.
- N/A K. Phasing.
- L. Proposed construction of private storm drain improvements within public right-of-way and/or easement including identification of the public entity having ownership.
- N/A M. Proposed contours superimposed over existing contours adequately demonstrating changes in grade especially at the property line.
- N/A N. Identification of any required offsite grading.
- N/A O. Specifications for the proposed grading and/or soil compaction.
- ✓ P. Erosion Control and Stormwater Pollution Prevention Plans. See Erosion Control and Stormwater Pollution Prevention Plans Checklist.

2. Off-site:

- ✓ A. Definition, location, and configuration of required drainage facilities.
- ✓ B. Rights-of-way and easements needed to accommodate (A) above.

EROSION CONTROL AND STORMWATER POLLUTION PREVENTION PLANS CHECKLIST

Use this checklist to prepare a plan for the mitigation of damages due to stormwater pollution, soil erosion and deposition. All grading of 1.0 acre or more or 500 cubic yards and any grading within or adjacent to a watercourse defined as a major facility during the months of July, August, or September shall provide for erosion control and the safe passage of the 10-year design storm runoff during the construction phase. A Stormwater Pollution Prevention Plan shall be provided for all grading of 1.0 acre or more.

DRAINAGE AND TRANSPORTATION INFORMATION SHEET
(REV. 1/28/2003rd)

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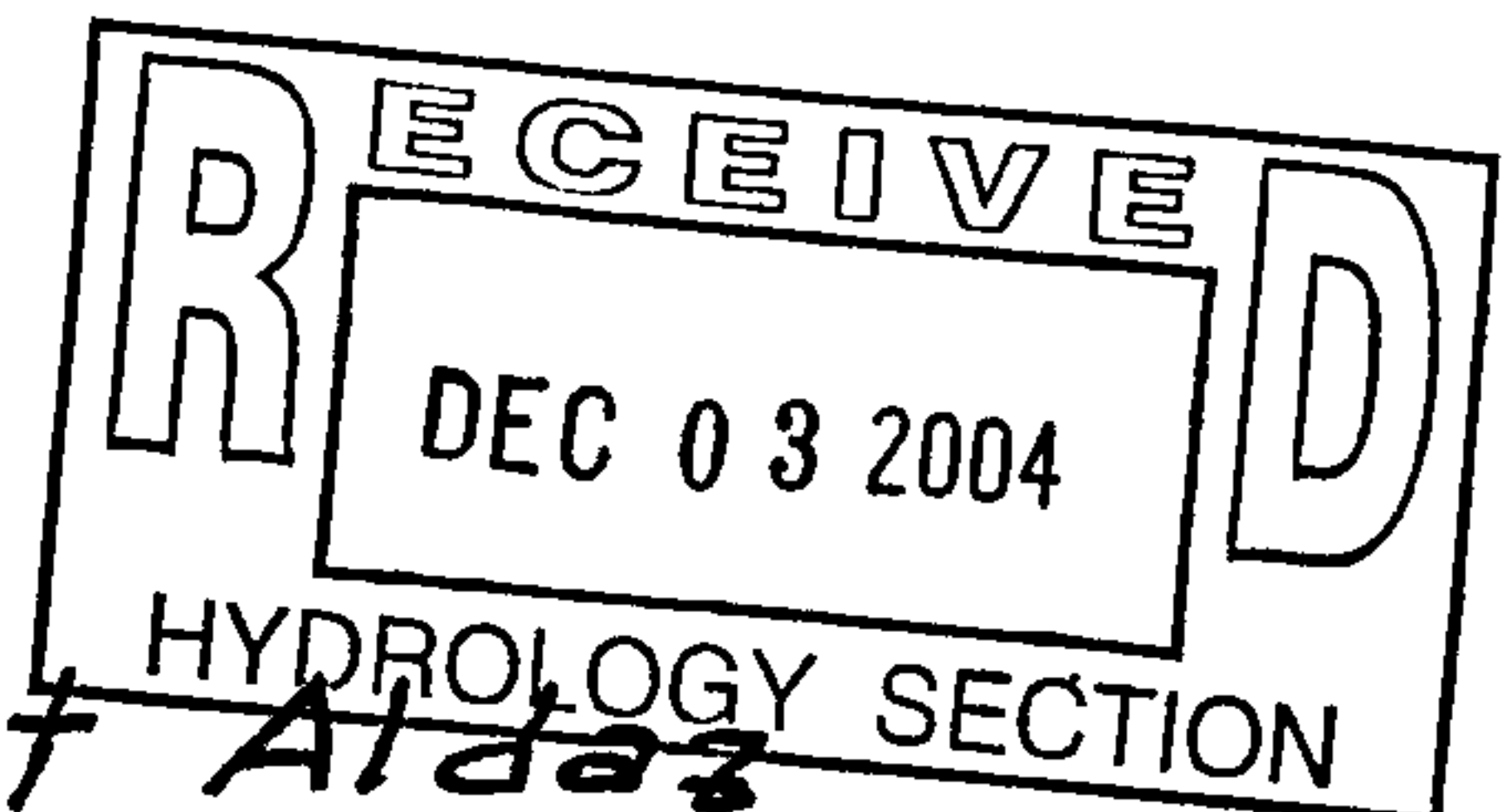
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